

Zika Virus, MEX I-44

Catalog No. NR-50279

Product Description: Cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero 76, clone E6) infected with Zika virus (ZIKV), MEX I-44

Passage History: V4/V4 (Prior to deposit at BEI Resources/BEI Resources); V# = Number of passages in Vero cells¹

Lot²: 64522916

Manufacturing Date: 18NOV2017

| TEST | SPECIFICATIONS | RESULTS |
|--|---|---|
| Infectivity in Vero E6 Cells | Report results | Refractile cell rounding and detachment |
| Sequencing of Species-Specific Region (948 nucleotides) | Consistent with ZIKV, MEX I-44 | 99% identity with ZIKV, MEX I-44 (GenBank: KX856011) ³ |
| Titer by TCID₅₀ Assay in Vero E6 Cells^{4,5} | Report results | 2.8 × 10 ⁷ TCID ₅₀ per mL |
| Sterility (21-day incubation) Harpo's HTYE broth ⁶ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO ₂ | No growth No growth No growth No growth No growth No growth No growth | No growth No growth No growth No growth No growth No growth No growth |
| Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA Detection by PCR of Test Article nucleic acid | None detected None detected | None detected None detected |

¹Removal of contaminating mycoplasma required three additional virus passages at BEI Resources.

²Grown in Minimum Essential Medium containing Earle's Balanced Salt Solution (Gibco® 11095-080), supplemented with 1 mM sodium pyruvate (Gibco® 11360-070) and 2% fetal bovine serum (ATCC® 30-2020) for 8 days at 37°C with 5% CO₂

³The complete genome sequence of BEI Resources NR-50279, Lot No. 64522916 has also been determined (GenBank: KY648934, ZIKV/Aedes aegypti/MEX/MEX_I-44/2016).

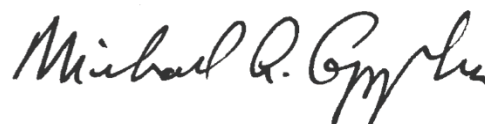
⁴The Tissue Culture Infectious Dose 50% (TCID₅₀) is the 50% infectious endpoint in cell culture. The TCID₅₀ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

⁵9 days at 37°C with 5% CO₂

⁶Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 08 MAR 2017

Signature:



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